CLAIMS

1. A thrust needle bearing employing lubricating oil and having a rolling element (2) held by a cage (3) and rolling on a race (1a, 1b), wherein

the value of the arithmetic average roughness Ra of said rolling element (2) is set to at least 0.03 μm and at most 0.15 μm.

2. The thrust needle bearing according to claim 1, wherein

the value of the arithmetic average roughness Ra of a pocket guide face of said cage (3) is set to at most 0.4 μm.

3. The thrust needle bearing according to claim 1, wherein

the value of the arithmetic average roughness Ra of said race (1a, 1b) is set to at most 0.5 μm.

4. The thrust needle bearing according to claim 1, used in a compressor for an air conditioner.

5. The thrust needle bearing according to claim 1, used in an automatic transmission.

6. A thrust needle bearing employing lubricating oil and having a rolling element (2) held by a cage (3) and rolling on a race (1a, 1b), wherein

the clearance between a pocket guide face of said cage (3) and said rolling element (2) is set to at least 60 μm and at most 130 μm.

7. The thrust needle bearing according to claim 6, wherein

said cage (3) is a W-type cage.

8. The thrust needle bearing according to claim 6, wherein

the value of the arithmetic average roughness Ra of said rolling element (2) is set to at least 0.03 μm and at most 0.15 μm.

9. The thrust needle bearing according to claim 6, used in a compressor for an air conditioner.

10. The thrust needle bearing according to claim 6, used in an automatic transmission.